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introduction of free HIT display format
NEWS 32 MAY 15 INPADOCDB and INPAFAMDB enhanced with Chinese legal
status data
NEWS 33 MAY 28 CAS databases on STN enhanced with NANO super role in
records back to 1992

NEWS EXPRESS MAY 26 09 CURRENT WINDOWS VERSION IS V8.4,
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CAPLUS now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

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=> s ((common light chain) and (phage library))
 450491 COMMON
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 1283619 LIGHT
 11895 LIGHTS
 1287663 LIGHT
 (LIGHT OR LIGHTS)
 818731 CHAIN
 347111 CHAINS
 1023552 CHAIN

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 53676 PHAGE
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 94243 LIBRARY
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 1468 PHAGE LIBRARY
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 L1 2 ((COMMON LIGHT CHAIN) AND (PHAGE LIBRARY))

=> d L1 bib abs 1-2

L1 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2004:634081 CAPLUS

DN 141:156119

TI Screening antibody common light chains using
phage display libraries

IN Kojima, Tetsuo

PA Chugai Seiyaku Kabushiki Kaisha, Japan

SO PCT Int. Appl., 28 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI WO 2004065611	A1	20040805	WO 2004-JP496	20040121
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ				
EP 1605058	A1	20051214	EP 2004-703920	20040121
EP 1605058	B1	20090513		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
AT 431423	T	20090515	AT 2004-703920	20040121
US 20060159673	A1	20060720	US 2005-542839	20051213
PRAI JP 2003-12648	A	20030121		
WO 2004-JP496	W	20040121		

AB A method of screening a common light chain
 which comprises the steps of: (a) producing a host secreting the heavy

chain of an antibody binding to a desired antigen; (b) transferring an antibody light chain library into the host of the step (a) and thus producing libraries presenting antibodies consisting of the above heavy chain and the above light chain; (c) selecting a library presenting an antibody binding specifically to the desired antigen as described in the step (a); (d) transferring the library selected in the step (c) into a host secreting the heavy chain of an antibody binding to a desired antigen, which is different from the antigen of the step (a), and thus producing libraries presenting antibodies consisting of the heavy chain and the light chain; and (e) selecting a library presenting an antibody binding specifically to the desired antigen as described in the step (d).

The method allows for the enhanced formation of the desired heteromultimer relative to undesired heteromultimers and homomultimers.

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1998:425553 CAPLUS

DN 129:160425

OREF 129:32645a,32648a

TI An efficient route to human bispecific IgG

AU Merchang, A. Margaret; Zhu, Zhenping; Yuan, Jean Q.; Goddard, Audrey; Adams, Camellia W.; Presta, Leonard G.; Carter, Paul

CS Departments of Molecular Oncology, Molecular Biology, Antibody Technologies, and Immunology, Genentech Inc., South San Francisco, CA, 94080, USA

SO Nature Biotechnology (1998), 16(7), 677-682

CODEN: NABIF9; ISSN: 1087-0156

PB Nature America

DT Journal

LA English

AB Prodn. of bispecific IgG (BsIgG) by coexpressing two different antibodies is inefficient due to unwanted pairings of the component heavy and light chains. To overcome this problem, heavy chains were remodeled for heterodimerization using engineered disulfide bonds in combination with previously identified "knobs-into-holes" mutations. One of the variants, S354C:T366W/Y349'C:T366'S:L368"A:Y407'V, gave near quant. (.apprx.95%) heterodimerization. Light chain mispairing was circumvented by using an identical light chain for each arm of the BsIgG. Antibodies with identical light chains that bind to different antigens were identified from an scFv phage library with a very restricted light chain repertoire for the majority (50/55) of antigen pairs tested. A BsIgG capable of simultaneously binding to the human receptors HER3 and cMpl was prepd. by coexpressing the common light chain and corresponding remodeled heavy chains followed by protein

A chromatog. The engineered heavy chains retain their ability to support antibody-dependent cell-mediated cytotoxicity as demonstrated with an anti-HER2 antibody.

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